FIG. 1

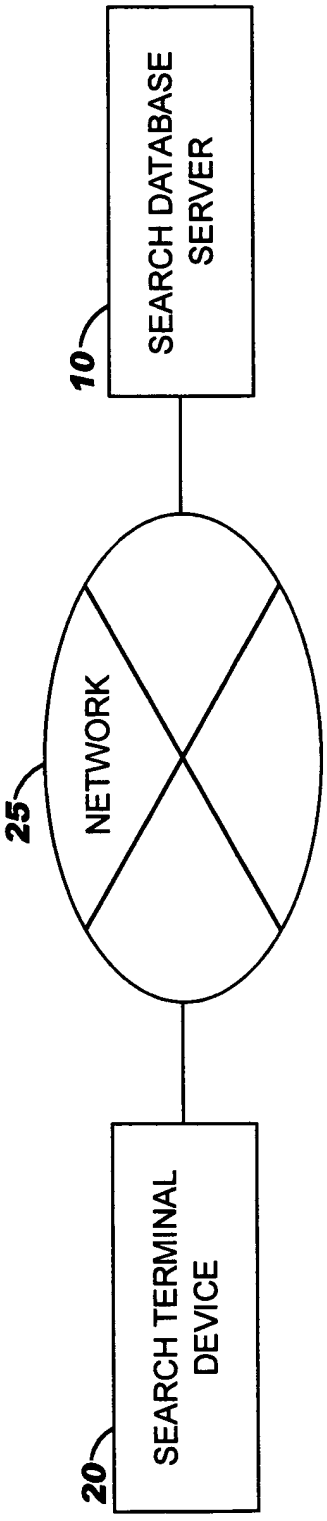

SEARCH DATABASE SERVER
10
NETWORK
25
SEARCH TERMINAL DEVICE
20

FIG. 2

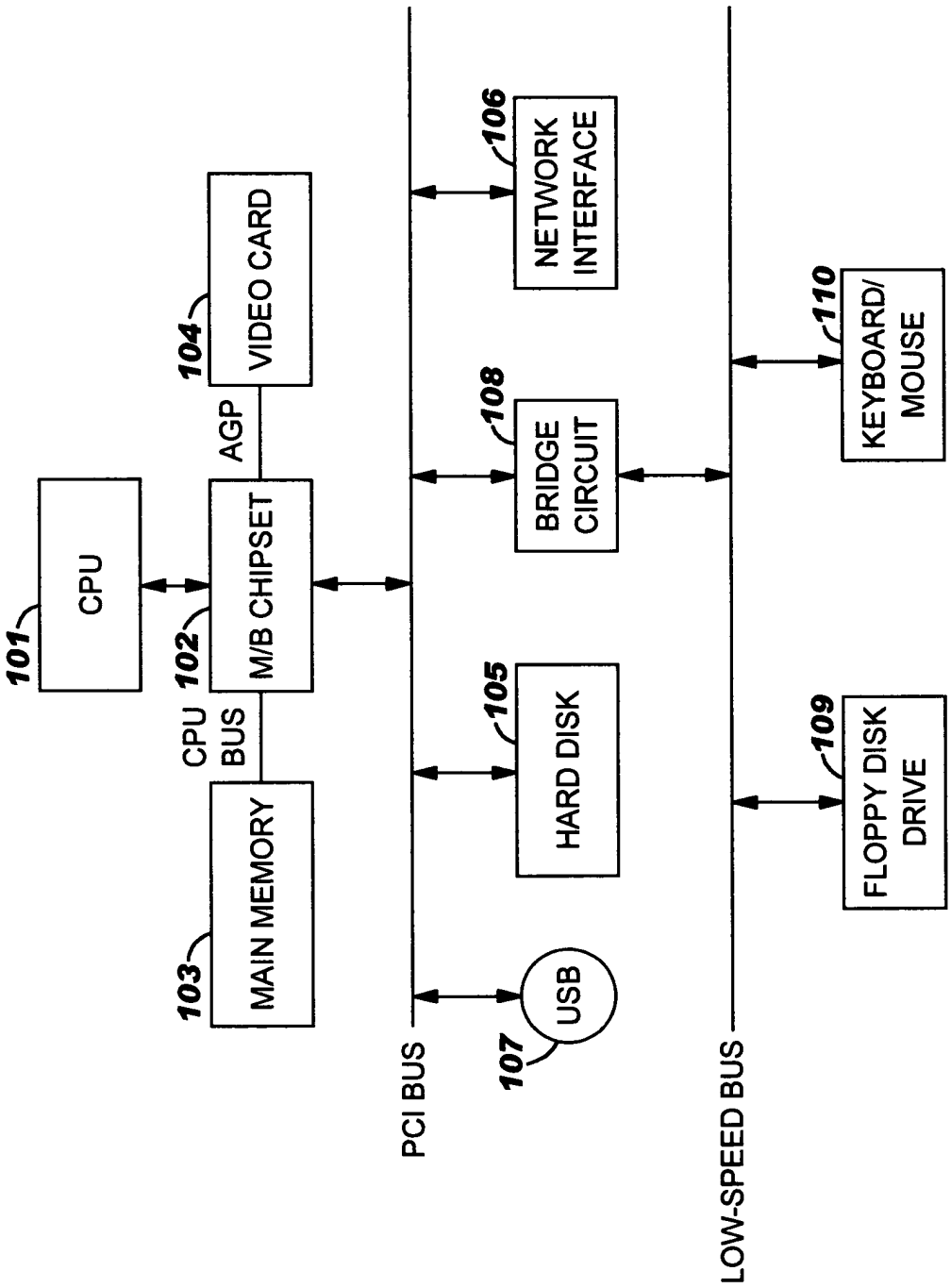

CPU
101
M/B CHIPSET
102
AGP
VIDEO CARD
104
CPU BUS
MAIN MEMORY
103
NETWORK INTERFACE
106
BRIDGE CIRCUIT
108
HARD DISK
105
USB
107
PCI BUS
KEYBOARD/ MOUSE
110
FLOPPY DISK DRIVE
109
LOW-SPEED BUS

FIG. 3

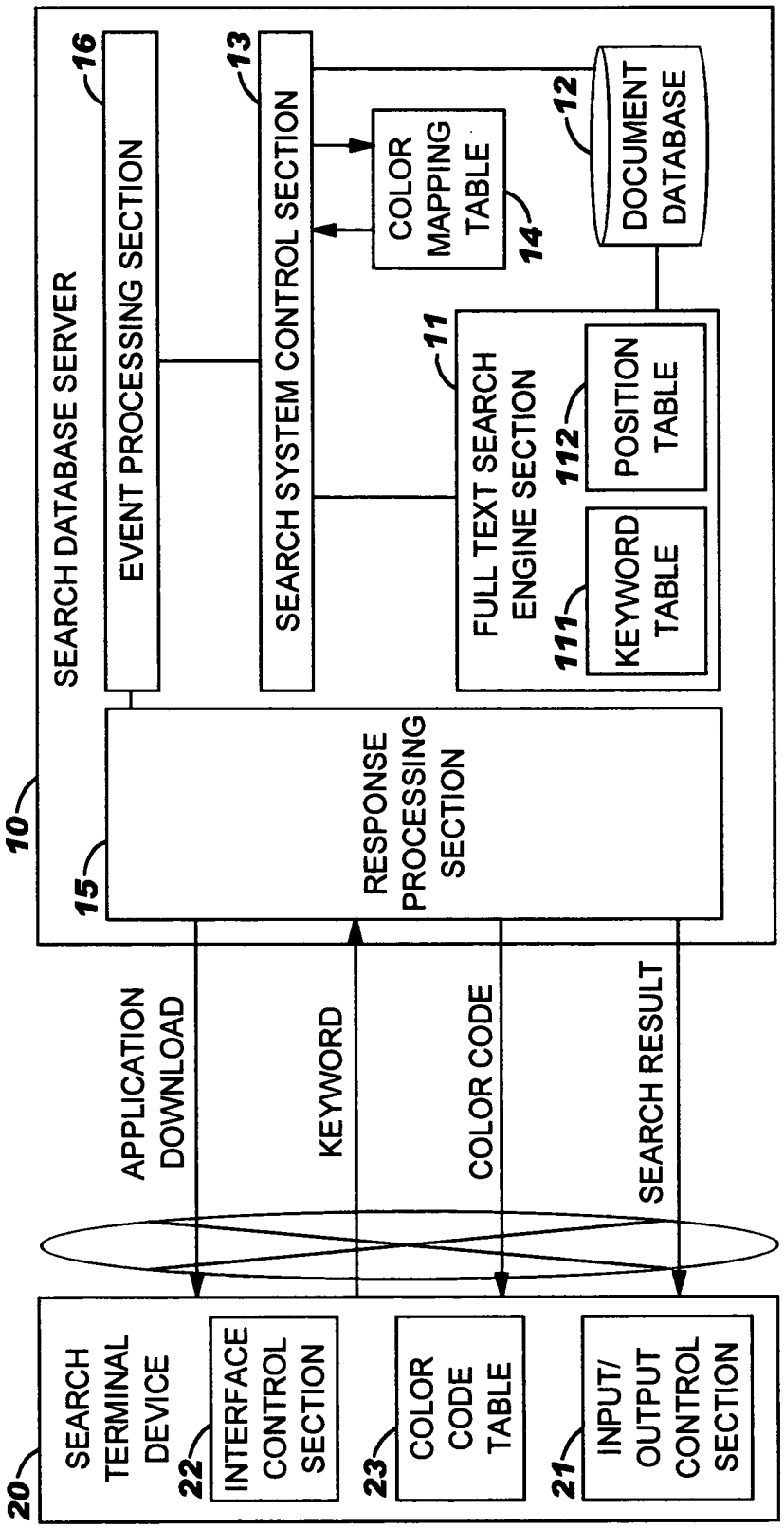

SEARCH DATABASE SERVER
10
EVENT PROCESSING SECTION
16
SEARCH SYSTEM CONTROL SECTION
13
COLOR MAPPING TABLE
14
DOCUMENT DATABASE
12
FULL TEXT SEARCH ENGINE SECTION
11
POSITION TABLE
112
KEYWORD TABLE
111
RESPONSE PROCESSING SECTION
15
APPLICATION DOWNLOAD
KEYWORD
COLOR CODE
SEARCH RESULT
SEARCH TERMINAL DEVICE
20
INTERFACE CONTROL SECTION
22
COLOR CODE TABLE
23
INPUT/ OUTPUT CONTROL SECTION
21

FIG. 4

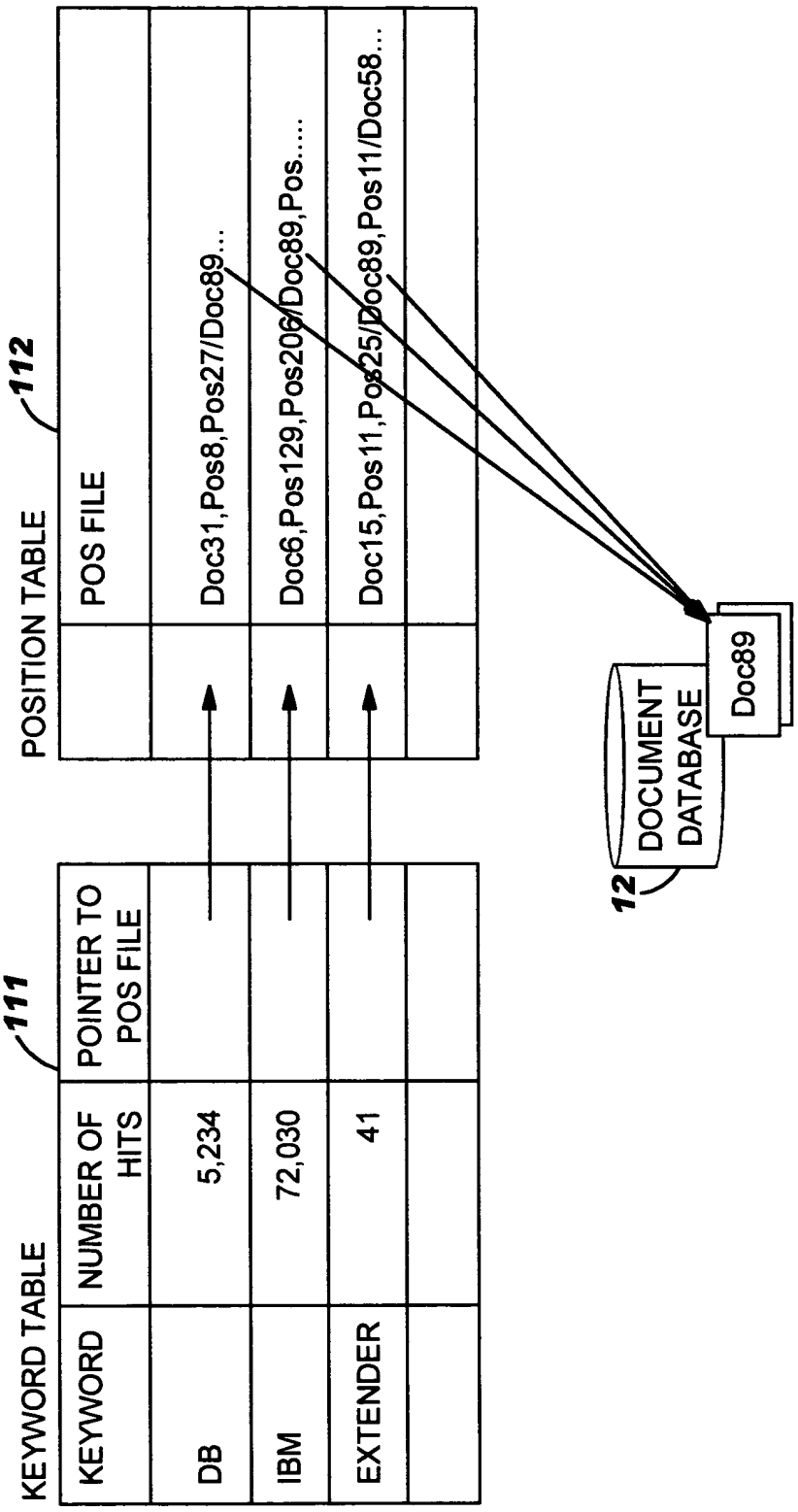

KEYWORD TABLE
111
KEYWORD
NUMBER OF HITS
POINTER TO POS FILE
DB
5,234
IBM
72,030
EXTENDER
41
POSITION TABLE
112
POS FILE
Doc31,Pos8,Pos27/Doc89...
Doc6,Pos129,Pos206/Doc89,Pos.....
Doc15,Pos11,Pos25/Doc89,Pos11/Doc58...
DOCUMENT DATABASE
12
Doc89

FIG. 5

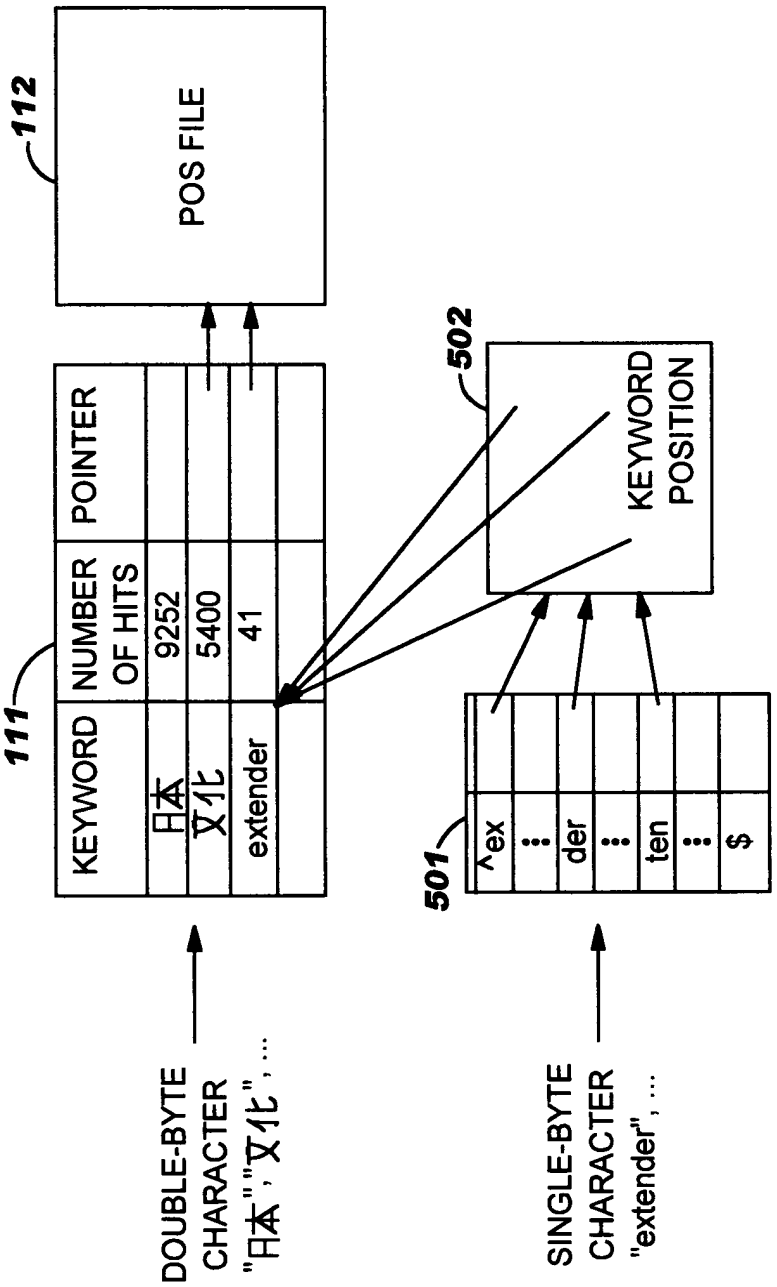

112
POS FILE
111
KEYWORD
NUMBER OF HITS
POINTER
日本
文化
extender
9252
5400
41
502
KEYWORD POSITION
501
^ex
...
der
...
ten
...
$
DOUBLE-BYTE CHARACTER "日本","文化",...
SINGLE-BYTE CHARACTER "extender",...

FIG. 6

14

GRAY	RED	PURPLE	BLUE	GREEN	BLACK
0%	0.0009	0.0010-0.0059	0.0060-0.0299	0.0300-0.0999	0.100-1.000

FIG. 7

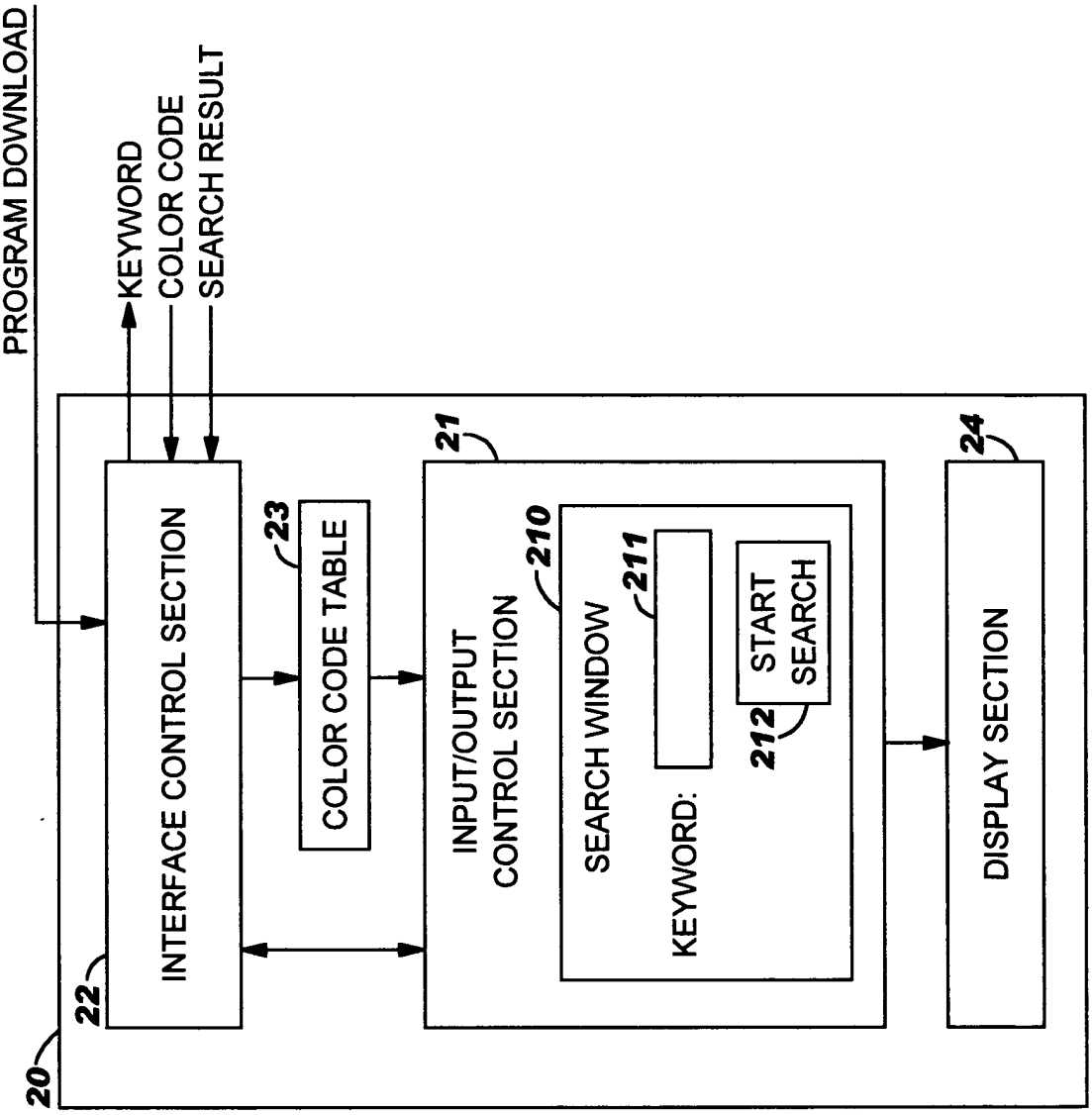

PROGRAM DOWNLOAD
KEYWORD
COLOR CODE
SEARCH RESULT
INTERFACE CONTROL SECTION
22
COLOR CODE TABLE
23
INPUT/OUTPUT CONTROL SECTION
21
SEARCH WINDOW
210
KEYWORD:
211
START SEARCH
212
DISPLAY SECTION
24
20

FIG. 8

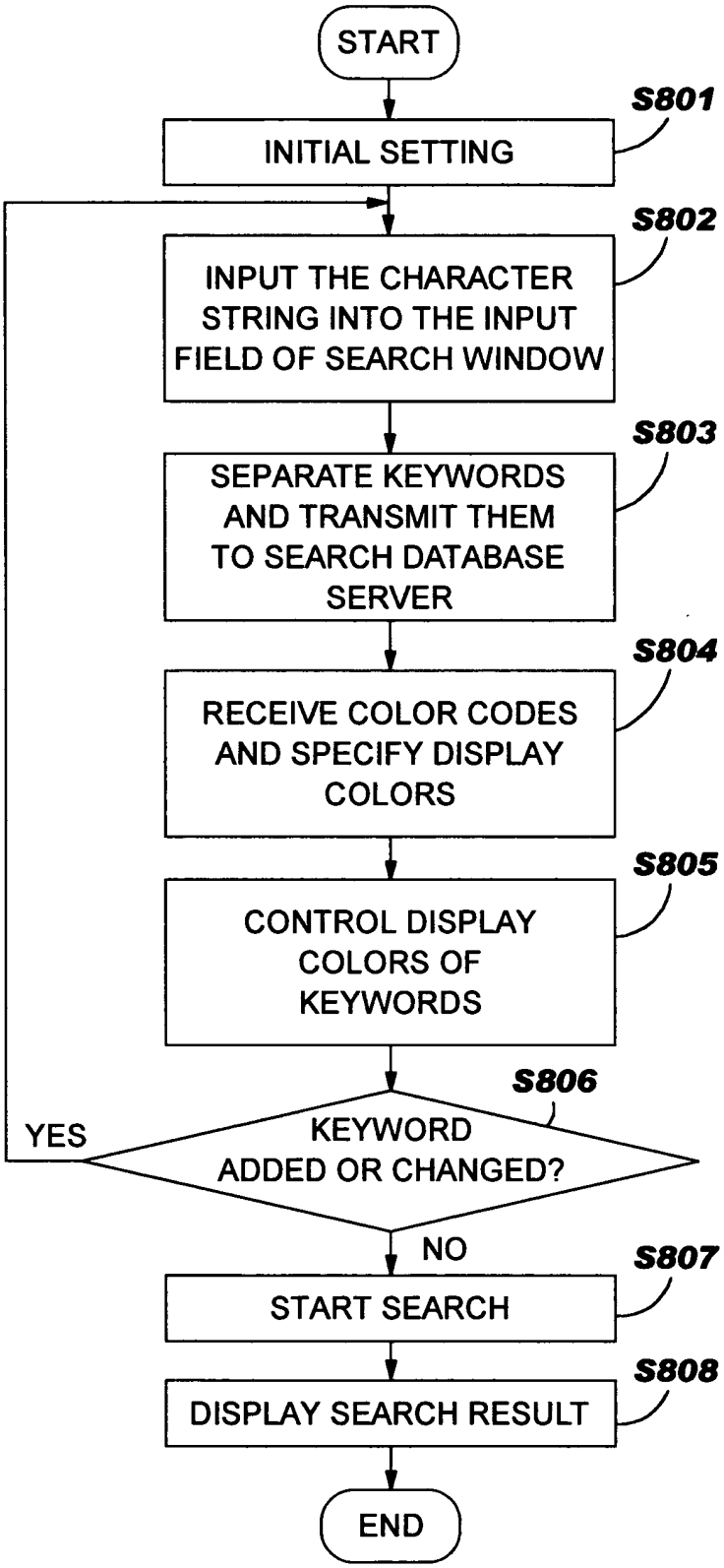

START
S801
INITIAL SETTING
S802
INPUT THE CHARACTER STRING INTO THE INPUT FIELD OF SEARCH WINDOW
S803
SEPARATE KEYWORDS AND TRANSMIT THEM TO SEARCH DATABASE SERVER
S804
RECEIVE COLOR CODES AND SPECIFY DISPLAY COLORS
S805
CONTROL DISPLAY COLORS OF KEYWORDS
S806
KEYWORD ADDED OR CHANGED?
YES
NO
S807
START SEARCH
S808
DISPLAY SEARCH RESULT
END

FIG. 9

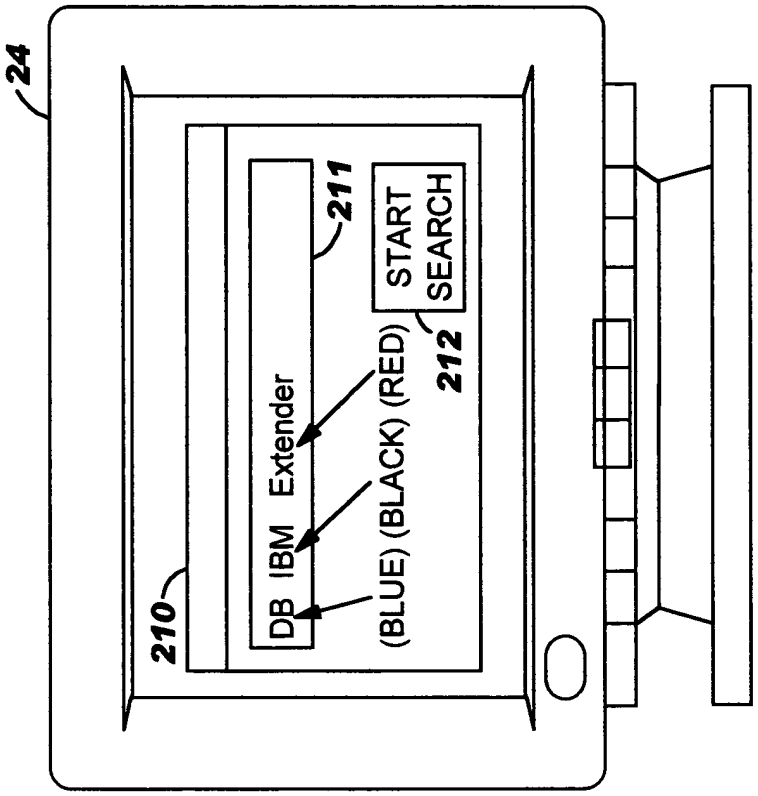


FIG. 10

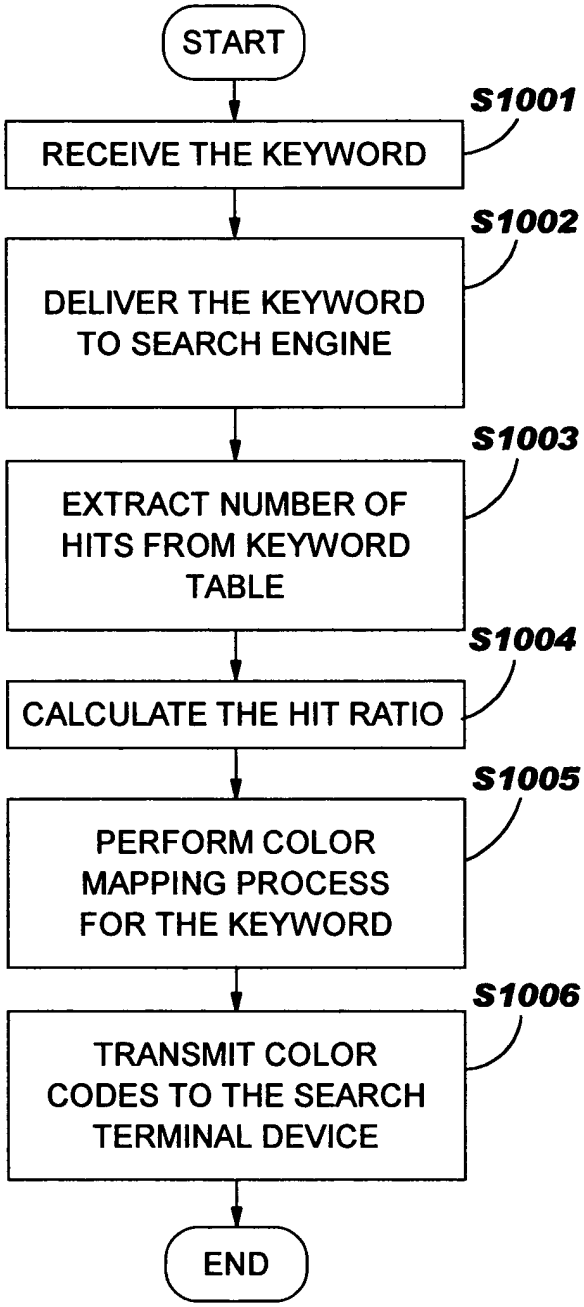

START
S1001
RECEIVE THE KEYWORD
S1002
DELIVER THE KEYWORD TO SEARCH ENGINE
S1003
EXTRACT NUMBER OF HITS FROM KEYWORD TABLE
S1004
CALCULATE THE HIT RATIO
S1005
PERFORM COLOR MAPPING PROCESS FOR THE KEYWORD
S1006
TRANSMIT COLOR CODES TO THE SEARCH TERMINAL DEVICE
END

FIG. 11

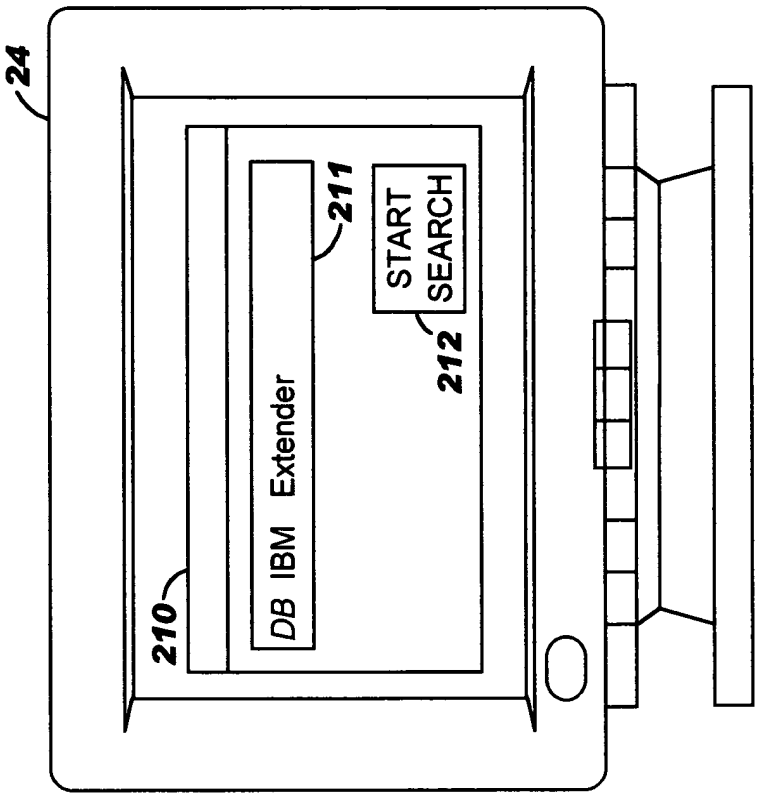


FIG. 12

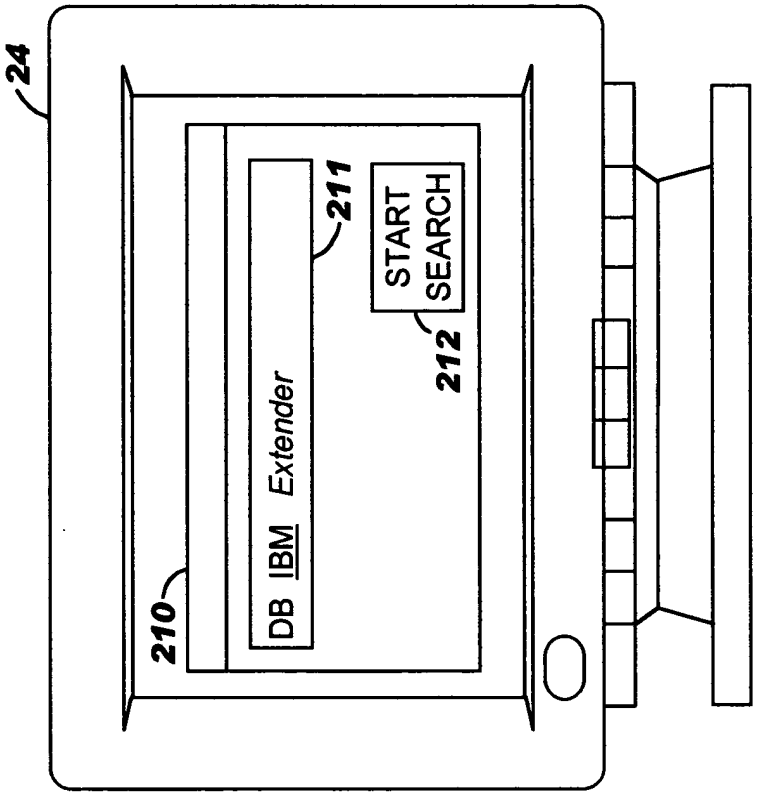


FIG. 13

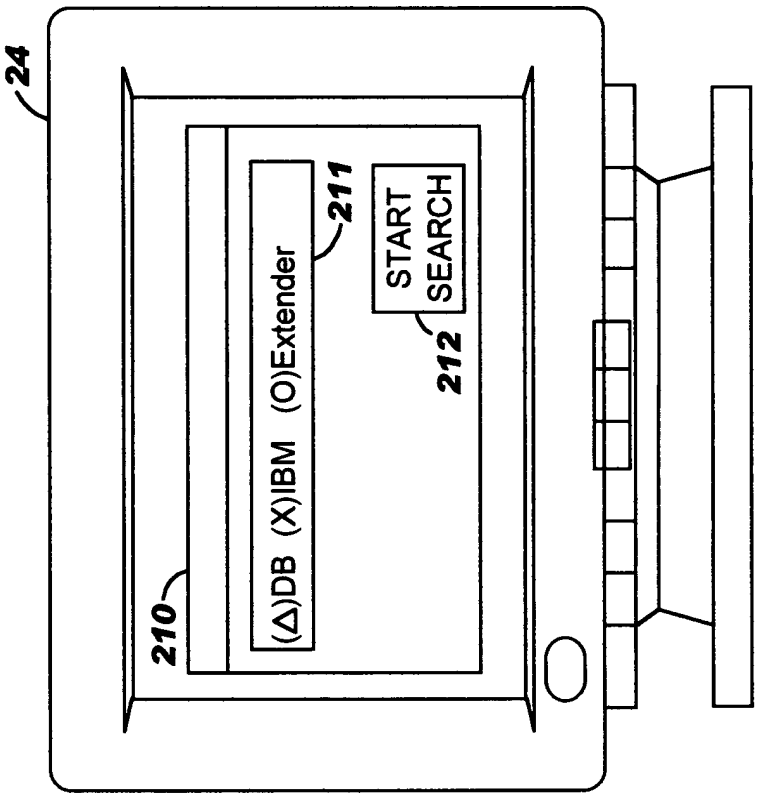


FIG. 14

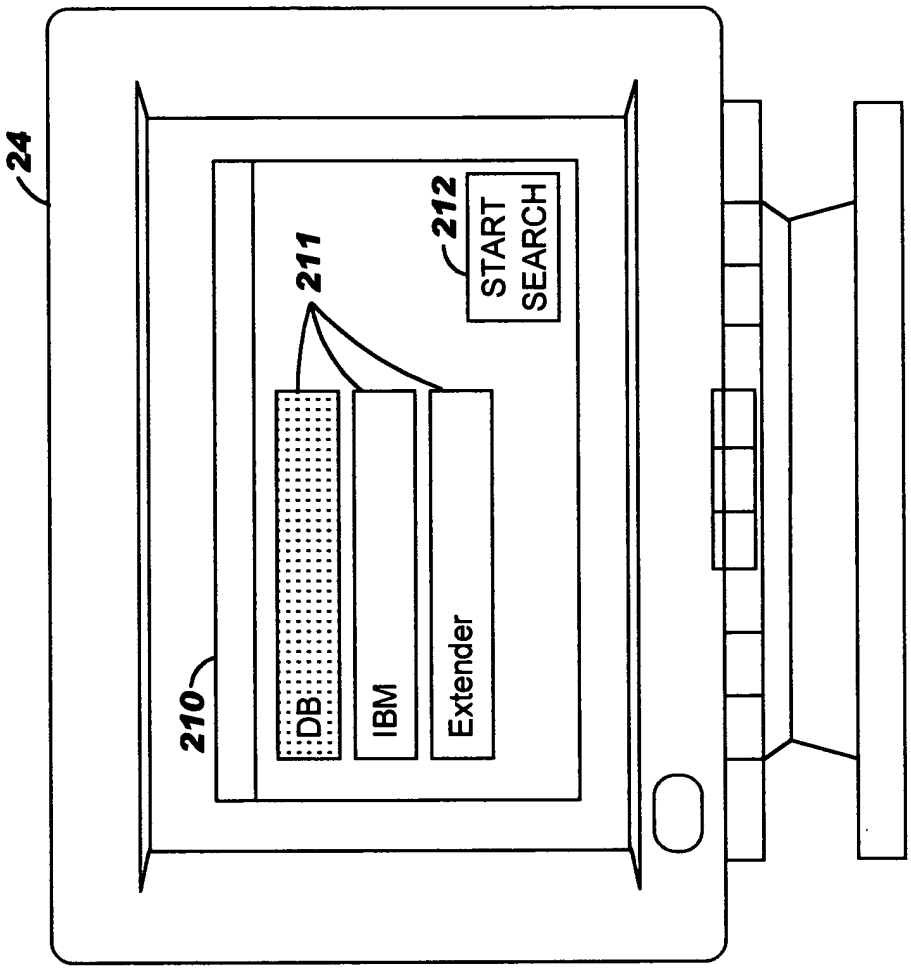
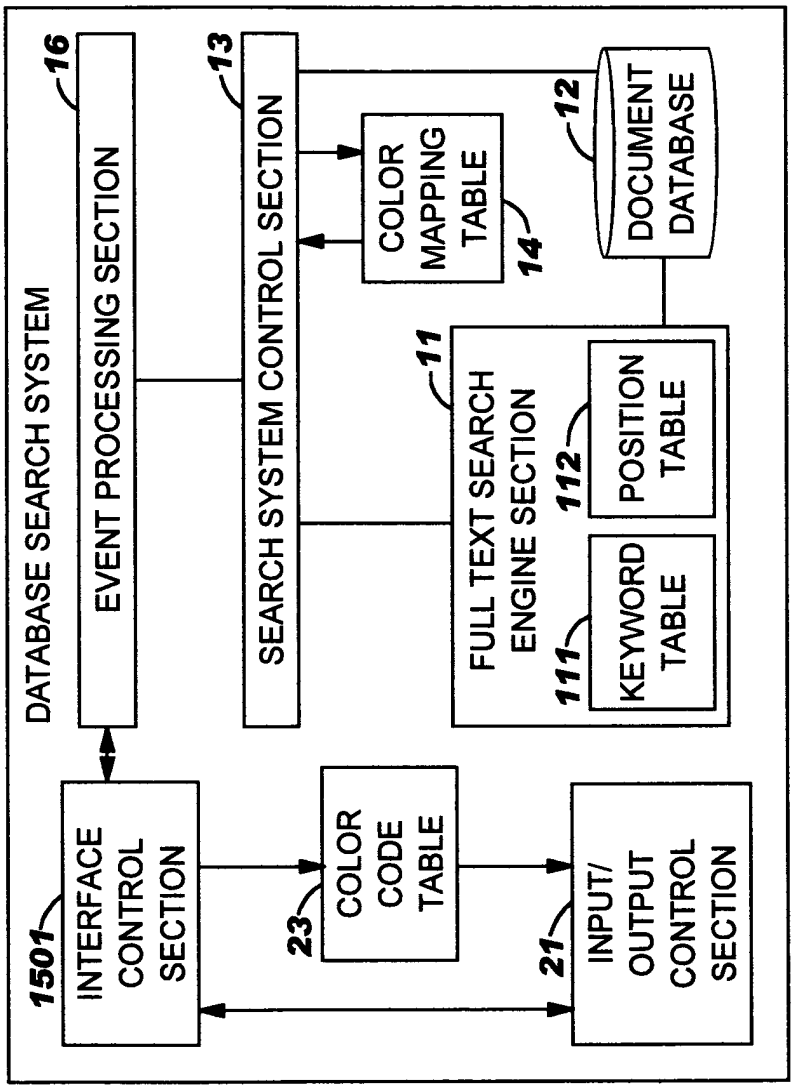


FIG. 15


DATABASE SEARCH SYSTEM
16
EVENT PROCESSING SECTION
13
SEARCH SYSTEM CONTROL SECTION
COLOR MAPPING TABLE
14
12
DOCUMENT DATABASE
11
FULL TEXT SEARCH ENGINE SECTION
112
POSITION TABLE
111
KEYWORD TABLE
1501
INTERFACE CONTROL SECTION
23
COLOR CODE TABLE
21
INPUT/ OUTPUT CONTROL SECTION